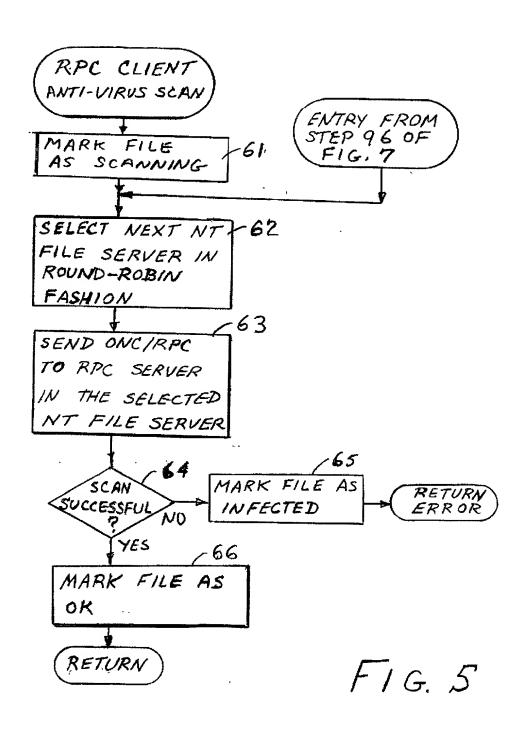
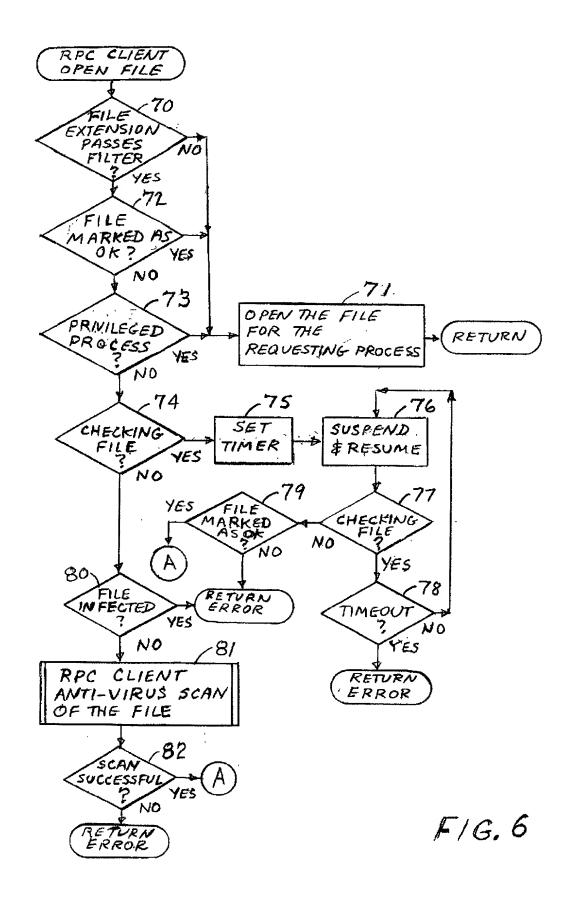


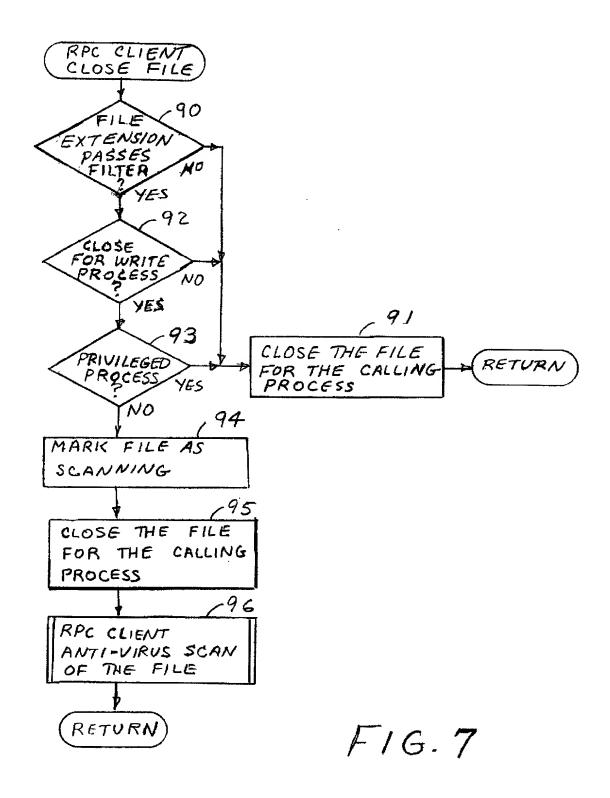
FIG. 3

•		65
FILE ATTRIBUTES FOR VIRUS CHECKING		
BIT Ø	BIT 1	STATUS
0	0	NOT CHECKED
0	1	CHECKING
/	0	CHECKED - OK
/	1	INFECTED

FIG. 4







NT FILE SERVER
PROCESSING OF ONC/RPC
FROM RPC CLIENT FOR
VIRUS CHECKING

-10/

I/O MANAGER ROUTES ONC/RPC TO RPC SERVER FOR VIRUS CHECKING IN USER MODE

10

RPC SERVER SENDS IOCTL TO VIRUS CHECKER DRIVER IN KERNEL MODE

~/03

VIRUS CHECKER
INITIATOR DRIVER SENDS
A FILE OPENING CALL
TO THE I/O MANAGER

104

I/O MANAGER INTERPRETS
THE FILE OPENING CALL
AS A FILE OPENING
EVENT AND REPORTS
THE EVENT TO THE
CONVENTIONAL
VIRUS CHECKER
PROGRAM EXECUTING
IN USER MODE

~105

THE CONVENTIONAL
VIRUS CHECKER
PROGRAM READS FILE
DATA FROM THE FILE
IN THE NETWORK FILE
SERVER INTO RAM OF THE
FILE SERVER, AND
SCANS THE FILE DATA IN
THE RAM TO CHECK
FOR VIRUSES

106

IJO MANAGER RETURNS
RESPONSE OF THE
CONVENTIONAL
NIRUS CHECKER
PROGRAM TO THE
VIRUS CHECKER
INITIATOR DRIVER

107

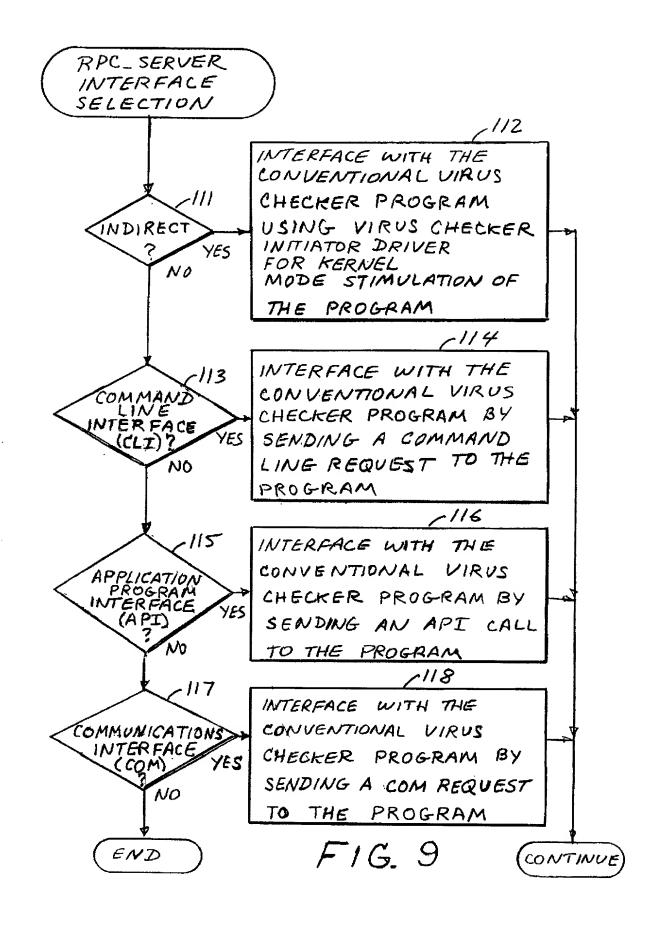
VIRUS CHECKER INITIATOR DRIVER RETURNS THE RESPONSE TO THE RPC SERVER FOR VIRUS CHECKING

-108

THE RPC SERVER
FOR VIRUS
CHECKING RETURNS
THE RESPONSE TO
THE RPC CLIENT
FOR VIRUS
CHECKING

END

F1G, 8



SYSTEM SETUP

-121

LOAD EACH NT FILE SERVER
WITH THE RPC SERVER
FOR VIRUS CHECKING
AND WITH THE VIRUS
CHECKER INITIATOR DRIVER

~122

LOAD EACH DATA MOVER
OF THE NETWORK FILE
SERVER WITH THE RPC
CLIENT FOR YIRUS
CHECKING

-123

MIGRATE FILES INTO THE NETWORK FILE SERVER; EIG., FROM THE NT FILE SERVERS

-124

MARK FILES AS SHARED WITH THE NT FILE SERVERS, AND NOT CHECKED

-125

BEGIN BACKGROUND TASK
OF VIRUS CHECKING
OF THE FILES MARKED AS
UNCHECKED, WHILE GIVING
NETWORK CLIENTS PRIORITY
ACCESS

F/G.10

ENP